

## ABSTRACT OF THE DISCLOSURE

A humidifier for humidifying a fuel cell composed of an anode side humidifier and a cathode side humidifier each  
5 possessing a plurality of hollow fiber membrane modules for migrating moisture between a supply gas, which is supplied to a fuel cell, and an exhaust gas, which is exhausted from the fuel cell to thereby humidify the supply gas, the humidifier comprising: a pair of heads which hold both ends of the hollow  
10 fiber membrane modules, a connecting member which connects each of heads, and a device for warming the supply gas composed of conduits through which a cooling medium exhausted from the fuel cell is passed. The device for warming the supply gas is configured so that first warms a humidifier at an outlet side  
15 of the supply gas, and then warms a humidifier at an inlet side of the supply gas.